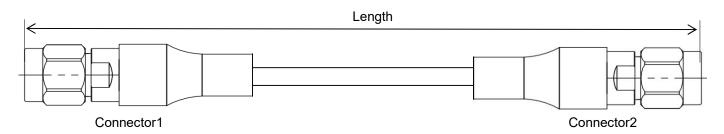


Economical Low Loss Flexible Cable Assembly, Using EL350

DC-18 GHz, SMA Male to SMA Male

EL350-SMAMSMAM-L(L:Length)

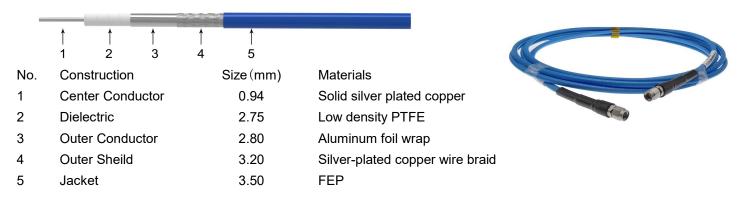


- · Length can be in meter or in inch etc, e.g, EL350-SMAMSMAM-1M. Standard length tolerance: ±1.5%. Custom lengths and other connector types available.
- · Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

Configuration

Connector 1	SMA male	Connector 2	SMA male		
Body	Passivated stainless steel	Body	Passivated stainless steel		
Center Contact	Gold plated brass	Center Contact	Gold plated brass		
Cable Type	EL350				

Cable Construction



Electrical

Electrical		Mechanical & Environmental				
Frequency	DC-18 GHz	Min.Bending Radius Static	14mm			
Impedance	50 Ω	Min. Bending Radius Repeated	35mm			
VSWR Max	1.25	Velocity of Propagation	76%			
IL Max(1 meter assembly)	2.3dB	Temperature(Operation)	-50∼85 °C			
*Mechanical Phase Stability	< <u>±</u> 8°	Temperature(Storage)	-60∼85 °C			
Amplitude Stability vs Shaking	<±0.1dB					

^{*} Wrap the cable 360 degree around a mandrel whose radius is ten times of the cable jacket size.

Bulk Cable Attenuation(Typical@25°C) & Power(VSWR=1.0; 40°C; Sea level)

Frequency MHz 30	700	1000	2000	6000	8000	10000	12000	14000	16000	18000
dB/100 Meter 20).9 32.1	38.6	55.1	97.6	113.6	128.0	141.1	153.3	164.8	175.7
Avg.Power kW 0.8	350 0.553	0.461	0.323	0.182	0.156	0.139	0.126	0.116	0.108	0.101
K1=1.191839				K2=0.00088						
Attenuation at any frequency=[K1×SQRT(FMHz)]+[K2×FMHz]										

Notes:

- 1) The above attenuation refers to typical loss of cable only, max loss is 1.1 times of typical loss. Insertion loss per connector is estimated as 0.04dB x SQRT Freq(GHz).
- 2) Power handling values are calculated based on cable properties. Power handling will vary based on connector type and actual VSWR of the cable assembly.

Typical Test Data (EL350-SMAMSMAM-1M)

